

Bristol Engine Company #5, Renovation and Expansion Conceptual Design, Options A,B & C

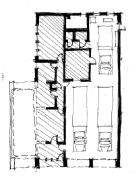
Presented by:

Fire Chief, Jon Pose

Timothy J. Callahan AIA,



Construction Options

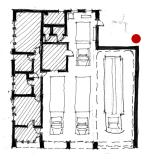


Option A Renovation: Female Living Accommodations Addition of 400 sf Total Project Cost = \$552,141.00



Option B Renovation: Standard Truck Bay Addition of 640 sf

Total Project Cost = \$747,141.00



Option C Renovation: Ladder Truck Bay Addition of 1080 sf

Total Project Cost = \$871,641.00



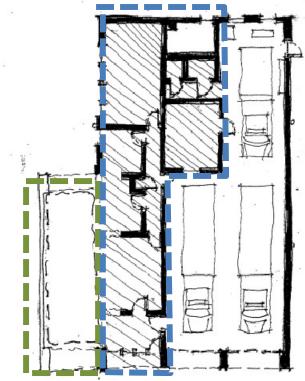
Scope of Construction Option A

• Program Renovations:

Option A; 900 sf For Male/ Female Living Accommodations

New Construction :
 Option A; 400 sf For Female Living Accommodations

- 90 ml EDPM Roof 30 yr. and Tapered Insulation
- Trussed Roof With Asphalt Shingles 30 yr.
- Roof and Site Drainage
- Clean, Repoint and Repair Exterior
- Window/ Door Replacement
- Over Head Door Replacement (2)
- New Natural Gas line and Generator Upgrades
- Furniture Fixtures and Equipment
- Site Improvements, Drive/Parking,
- Technology/Phone Security Upgrade
- Exterior Signage





Program Renovations: 900 sf

New Construction: 400 sf

Total Area: 3972 sf



Scope of Construction Option B

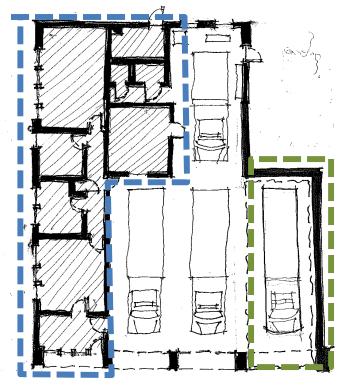
Program Renovations :

Option B; 1400 sf For Male/ Female Living Accommodations

New Construction :

Option B; 640 sf For Hose Truck

- 90 ml EDPM Roof 30 yr. and Tapered Insulation
- Trussed Roof With Asphalt Shingles 30 yr.
- Roof and Site Drainage
- Clean, Repoint and Repair Exterior
- Window/ Door Replacement
- Over Head Door Replacement (2)
- New Natural Gas line and Generator Upgrades
- Furniture Fixtures and Equipment
- Site Improvements, Drive/Parking
- Technology/Phone Security Upgrade
- Exterior Signage



Program Renovations: 1400 sf

New Construction: 640 sf

Total Area: 4212 sf

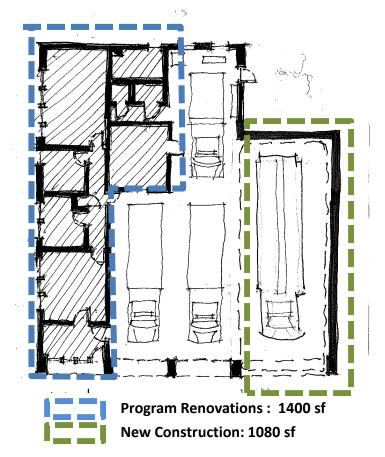


Scope of Construction Option C

• **Program Renovations :** Option C, 1400 sf

• New Construction : Option C, 1080 sf

- 90 ml EDPM Roof 30 yr. and Tapered Insulation
- Trussed Roof With Asphalt Shingles 30 yr.
- Roof and Site Drainage
- Clean, Repoint and Repair Exterior
- Window/ Door Replacement
- Over Head Door Replacement (2)
- New Natural Gas line and Generator Upgrades
- Furniture Fixtures and Equipment
- Site Improvements, Drive/Parking,
- Technology/Phone Security Upgrade
- Exterior Signage



Total Area: 4652 sf



Comparison Matrix

Description	Option A	Option B	Option C
Male/ Female Living Accommodations	2	2	3
Equipment Requirements	0	1	3
Vehicle Storage Requirements	0	1	3
Vehicle Clearance Requirements	0	2	3
Future Site Expansion	3	2	2
Long Term Program Goals	0	1	3
Lowest Overall Cost	3	2	1
Total	8	11	18
Matrix Notes:			
0: Does Not Meet Min. Requirements			
1: Meets Minimum Requirements			
2: Meets Most Requirements 3: Meets or Exceeds Requirements			
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Option A, Estimate

Option A - EDPM Roof /Trussed I	Roof Renovation and	Expansion	
285 Mix Street	ilooi, riellovation and	_	Draft/Progress Print
			Dial/Flogiess Fillit
Bristol, CT	2	3	4
<u> </u>	2	3	<u> </u>
Categories of Work	Construction Cost	Contingency & Soft Costs	Total Construction Cost
EDPM Roof and Tapered Insulation (3008 sf)X\$21	\$63,168	\$18,950	\$82,118
Trussed Roof Without Storage (564 sf) \$48	\$27,072	\$8,122	\$35,194
Roof and Site Drainage (Allowance)	\$10,000	\$3,000	\$13,000
Clean, Repoint and Repair Exterior (2586 sf) \$4	\$11,424	\$3,427	\$14,851
Vindow/ Door Replacement (202sf) \$30	\$6,060	\$1,818	\$7,878
Over Head Door Replacement (2) Allowance	\$20,000	\$6,000	\$26,000
Mech. Ren.,Gas line Gen. Upgrades (Allowance)	\$12,000	\$3,600	\$15,600
Program Renovation: (900 sf) \$150	\$135,000	\$40,500	\$175,500
New Construction (400 sf) \$250	\$100,000	\$30,000	\$130,000
Furniture Fixtures and Equipment (Allowance)	\$8,000	\$2,400	\$10,400
Site Improvements, (Drive/Parking,)	\$15,000	\$4,500	\$19,500
echnology/Phone Security Upgrade (Allowance)	\$7,000	\$2,100	\$9,100
Exterior Signage (Allowance)	\$10,000	\$3,000	\$13,000
Subtotal	\$424,724	\$127,417	\$552,141
Escalation (0 Years)			0
Fotal			552,141

Cost Estimate Notes

Column 1 - Categories of Work: the principal categories of work. New Construction refers to new additions. Program Renovations refer to reconfiguration of existing space for new uses.

Column 2- *Construction Cost:* Indicates the base construction cost of the work in each of the preceding categories.

Column 3 - Contingency and Soft Costs: contingency adds 10% to the base construction cost, soft costs add 20% to the sum of the base construction cost and contingency.

The indicated amount represents the combined contingency and soft costs. Soft costs include permits legal fees bonding costs architectural /engineering costs, administration, financing,

internal project management, testing and inspection.



Option B, Estimate

	tooi, itonovation and	Expansion and Stan	dara rrack bay	
35 Mix Street			aft/Progress Print	
Bristol, CT				
1	2	3	4	
Categories of Work	Construction Cost	Contingency & Soft Costs	Total Construction Cost	
DPM Roof and Tapered Insulation (3008 sf)X\$21	\$63,168	\$18,950	\$82,118	
russed Roof Without Storage (564 sf) \$48	\$27,072	\$8,122	\$35,194	
oof and Site Drainage (Allowance)	\$10,000	\$3,000	\$13,000	
lean, Repoint and Repair Exterior (2586 sf) \$4	\$11,424	\$3,427	\$14,851	
/indow/ Door Replacement (202sf) \$30	\$6,060	\$1,818	\$7,878	
ver Head Door Replacement (2) Allowance	\$20,000	\$6,000	\$26,000	
lech. Ren.,Gas line Gen. Upgrades (Allowance)	\$12,000	\$3,600	\$15,600	
rogram Renovation: (1400 sf) \$150	\$225,000	\$67,500	\$292,500	
ew Construction (640 sf) \$250	\$160,000	\$48,000	\$208,000	
urniture Fixtures and Equipment (Allowance)	\$8,000	\$2,400	\$10,400	
ite Improvements,Drive/Parking, (Allowance)	\$15,000	\$4,500	\$19,500	
echnology/Phone Security Upgrade (Allowance)	\$7,000	\$2,100	\$9,100	
kterior Signage (Allowance)	\$10,000	\$3,000	\$13,000	
ubtotal	\$574,724	\$172,417	\$747,141	
scalation (0 Years)			(
otal			747,141	

Cost Estimate Notes

Column 1 - Categories of Work: the principal categories of work. New Construction refers to new additions. Program Renovations refer to reconfiguration of existing space for new uses.

Column 2- Construction Cost: Indicates the base construction cost of the work in each of the preceding categories.

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The indicated amount represents the combined contingency and soft costs. Soft costs include permits legal fees bonding costs architectural /engineering costs, administration, financing,

internal project management, testing and inspection.

Column 4- Total Construction Cost: The sum of the base construction cost, contingency, and soft costs.



Option C, Estimate

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Final Conceptual Cost Estin	nate,				
Option C - EDPM Roof /Trussed Roof, Renovation and Expansion and Standard Truck Bay					
285 Mix Street		Draft/Progress Print			
Bristol, CT					
1	2	3	4		
Categories of Work	Construction Cost	Contingency & Soft Costs	Total Construction Cost		
EDPM Roof and Tapered Insulation (3008 sf)X\$21	\$63,168	\$18,950	\$82,118		
russed Roof Without Storage (564 sf) \$48	\$27,072	\$8,122	\$35,194		
Roof and Site Drainage (Allowance)	\$10,000	\$3,000	\$13,000		
Clean, Repoint and Repair Exterior (2586 sf) \$4	\$11,424	\$3,427	\$14,851		
Nindow/ Door Replacement (202sf) \$30	\$6,060	\$1,818	\$7,878		
Over Head Door Replacement (2) Allowance	\$20,000	\$6,000	\$26,000		
Mech. Ren.,Gas line Gen. Upgrades (Allowance)	\$12,000	\$3,600	\$15,600		
Program Renovation: (1400 sf) \$150	\$210,000	\$63,000	\$273,000		
New Construction (640 sf) \$250	\$270,000	\$81,000	\$351,000		
Furniture Fixtures and Equipment (Allowance)	\$8,000	\$2,400	\$10,400		
Site Improvements, Drive/Parking, (Allowance)	\$15,000	\$4,500	\$19,500		
Technology/Phone Security Upgrade (Allowance)	\$7,000	\$2,100	\$9,100		
Exterior Signage (Allowance)	\$10,000	\$3,000	\$13,000		
Subtotal	\$669,724	\$200,917	\$870,641		
Escalation (0 Years)			0		
Total			870,641		

Cost Estimate Notes

Column 1 - Categories of Work: the principal categories of work. New Construction refers to new additions. Program renovations refer to reconfiguration of existing space for new uses.

Column 2- Construction Cost: Indicates the base construction cost of the work in each of the preceding categories.

Column 3 - Contingency and Soft Costs: contingency adds 10% to the base construction cost, soft costs add 20% to the sum of the base construction cost and contingency.

The indicated amount represents the combined contingency and soft costs. Soft costs include permits legal fees bonding costs architectural /engineering costs, administration, financing,

internal project management, testing and inspection.

Column 4- Total Construction Cost: The sum of the base construction cost, contingency, and soft costs.



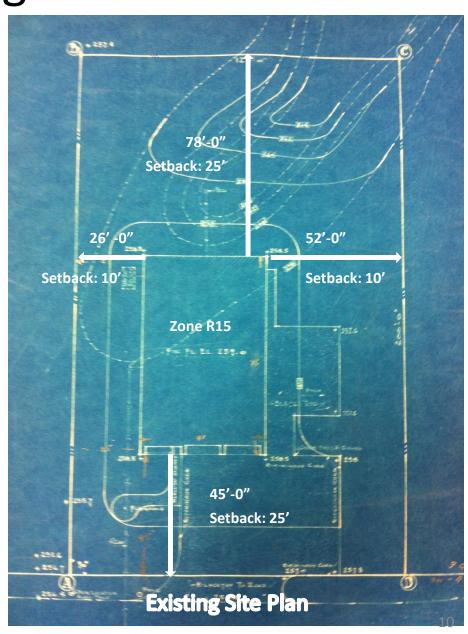
P and Z Regulations



* 30%= 7500 sf, Current = 3572 sf

Single-Family			
	R-25	R-15	
0	25,000	15,000	
0	125	(125) 100	
0	40.	(45) 25	
0	15	26 YES 10	
0	40.	(78) 25	
5	35	35	
0	25	¥ 30	

Zoning District Regulations





Design Alternatives



Design Alternative 1

